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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/007,698	12/10/2001	Tammy L. Moser	05882.0102.CNUS01 1537			
20792	7590 05/10/2006		EXAM	EXAMINER		
MYERS BIGEL SIBLEY & SAJOVEC			LI, RUI	LI, RUIXIANG		
PO BOX 37428 RALEIGH, NC 27627			ART UNIT	PAPER NUMBER		
11.22.51, 1.5 2,52			1646			
			DATE MAILED: 05/10/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Applicatio	n No.	Applicant(s)		
		10/007,698	3	MOSER ET AL.			
	Office Action Summary		Examiner		Art Unit		
			Ruixiang Li		1646		
Period fo	The MAILING DATE of this commun or Reply	nication app	ears on the	cover sheet with the c	orrespondence ad	ldress	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) file	ed on					
·—	• • • • • • • • • • • • • • • • • • • •	2b)⊠ This		n-final.			
3)		<i>,</i> —			secution as to the	e merits is	
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🛛	Claim(s) 8,9,11,12 and 15-24 is/are	pending in	the applica	tion.		•	
•	4a) Of the above claim(s) is/a	are withdraw	vn from con	sideration.			
	Claim(s) is/are allowed.						
-	Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)🖂	Claim(s) <u>8,9,11, 12, and 15-24</u> are	subject to r	restriction a	nd/or election require	ment.		
Applicati	on Papers						
9)	The specification is objected to by th	ne Examiner	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	g the correcti	on is require	d if the drawing(s) is obj	ected to. See 37 CI	FR 1.121(d).	
11)	The oath or declaration is objected t	o by the Exa	aminer. Not	e the attached Office	Action or form PT	ΓO-152.	
Priority ι	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2)	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		:	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		O-152)	

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## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 8 and 12, drawn to an angiostatin antagonist, classification depends upon the structure of the antagonist.
  - II. Claims 9 and 11, drawn to an angiostatin agonist, classification depends upon the structure of the agonist.
  - III. Claims 15 and 16, drawn to a method of inhibiting the angiogenesis inhibitory effect of angiostatin in a patient comprising administering to said patient an amount of an angiostatin antagonist, classified in class 514, subclass 1.
  - IV. Claim 17, drawn to a method of enhancing the angiogenesis inhibitory effect of angiostatin in a patient comprising administering to said patient an amount of an angiostatin agonist, classified in class 514, subclass 1.
  - V. Claims 18-20, drawn to an expression construct comprising a vector and a nucleic acid sequence encoding the  $\alpha$  subunit of ATP synthase, classified in class 435, subclass 320.1, and 325.
  - VI. Claim 21, drawn to an antibody that binds  $\alpha$  subunit of ATP synthase, classified in class 530, subclass 387.9.
  - VII. Claims 22-24, drawn to a kit or an isolated complex comprising angiostatin and ATP synthase, class 530, subclass 350.
- 2. The inventions are distinct, each from the other for the following reasons. Inventions
  I, II, V, VI, and VII are unrelated. Inventions are unrelated if it can be shown that

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they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP §806.04, MPEP §808.01). In the instance case, the different inventions are drawn to completely different products, an angiostatin antagonist, agonist, an expression construct, an antibody, and a protein complex. These molecules have completely different structures and biological functions which are not interchangeable and which require non-cohesive searches and considerations.

- 3. Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP §806.04, MPEP §808.01). In the instance case the different inventions are drawn to completely different methods each having completely different method steps, using different compositions (an antagonist versus an agonist), and having completely different outcomes. Thus, the methods are exclusive and require non-cohesive searches and considerations.
- 4. Inventions I, II, V, VI, and VII are related to Inventions III and IV either as product and process of use or distinct inventions. In the former case, the invention can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP §806.05 (h)). For example, an angiostatin antagonist or agonist may

be used to study angiostatin-induced signal transduction. In the later case, the inventions are drawn to independent inventions.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are distinct for the reasons given above and the search required for a single group is not required for any other group, restriction for examination purposes as indicated is proper.
- 7. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is

found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48 (b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48 (b) and by the fee required under 37 CFR 1.17 (l).

## Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875.

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The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback, can be reached on (571) 272-0961. The fax number for

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the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you

have questions on access to the Private PAIR system, please contact the Electronic

Business Center (EBC) at the toll-free phone number 866-217-9197.

Ruixiang L.

Ruixiang Li, Ph.D. Primary Examiner

May 8, 2006

RUIXIANG LI, PH.D. PRIMARY EXAMINER